CEILING SUPI SA CF	PLY DIFFUSER ND M	CEILING RET RAC CFM	3
SIZE (OR EQUIVALENT)	CFM RANGE	12"X12" (NECK SIZE)	MAX CFM
6X6	0-100	6 " ø	100
8X8	101-225	6X6	125
10X10	226-350	10"X10"	350
12X12	(12 351-500 24"X24" (NECK SIZE)		200
14X14	501-680	6 " ø	100
16X16	681-900	6X6	100
18X18	901-1120	8"ø	175
20X20	1121-1395	8X8	200
22X22	13961680	10"ø	270
24X24	1681-2000	10X10	350
		12 " ø	400
		12X12	500
		14 [#] ø	550
		15X15	800
		16 " ø	700
		18X18	1100
		22X22	1700

MANUFACTURER: TITUS OR EQUIVALENT SUPPLY: PMC RETURN: PAR

	····			······································	***************************************	
RE	CTANG	ULAR	AND R	OUND	DUCT	SIZING
AIR VOLUME	DUC	T HEI	HT IN	CHES		EQUIVALEN
CFM	4"	6"	8"	10"	12"	ROUND DU
50	6X4					5"
75	6X4					6"
100	8X4	6X6				6"
125	10X4	6X6				7"
150	10X4	8X6				7"
175	12X4	8X6				8"
200	14X4	8X6				8"
225	16X4	10X6				8"
250	16X4	10X6				9"
275		12X6	8X8			9"
300		12X6	8X8			9"
400		14X6	10X8			10"
500		18X6	12X8	10X10		11"
600		20X6	14X8	12X10		12"
700		24X6	16X8	12X10		12"
800		26X6	18X8	14X10	12X12	13"
900		30X6	20X8	16X10	12X12	14"
1000			22X8	16X10	14X12	14"
1100			24X8	18X10	16X12	15"
1200			26X8	20X10	16X12	16"
1300			28X8	20X10	18X12	16"
1400			30X8	22X10	18X12	16"
1500				24X10	20X12	16"
1600				26X10	20X12	17"
1700				28X10	22X12	17"
1800		1			22X12	18"
1900		<u> </u>			22X12	18"
2000					24X12	18"
	<u> </u>	1	L	L		· · · · · · · · · · · · · · · · · · ·

	SIDEWALL	DIFFUSERS	
SIZE (or equivalent)	MAX.FACE VELOCITY	MAXIMUM NC	SAD CFM
8 X 6	700	25	0-100
12 X 8	700	25	101-200
18 X 8	700	25	201-300
20 X 8	700	25	301-400
24 X 8	700	25	401-500
SIZE (or equivalent)		MAXIMUM NC	RAG CFM
14 X 8	500	25	400
20 X 8	500	25	600
22 X 10	500	25	800
24 X 12	500	25	1000
24 X 12	500	25	1200
30 X 14	500	25	1600
30 X 14	500 JRER: TRUAI	25	1600

	INT	AKE & EXHAU	ST LOUVER		TR4NSFER	GRILLE
	intake lol L C	JVER(600FPM) V FM	EXHAUST LOU LV CFM	IVER(800FPM)	T CI	G F M
	CFM RANGE	FREE AREA SQ FT.	CFM RANGE	FREE AREA SQ.FT.	CFM RANGE	FREE SQ F
	0-100	0.16	0-100	0.125	0-100	0.33
***************************************	101-150	0.25	101-150	0.18	101-150	05
	151-200	0.33	151-200	0.25	151-200	0.66
•	201-340	0.56	201-340	0.425	201-350	1.16
	341-450	0.75	341-450	0 56	351-500	1.66
	451-600	1	451-600	0.75	501-650	2.16
-	601-800	1.33	601-800	1	651-800	2.66
	801-1000	1.66	801-1000	1.25	801-950	3.1
	1001-1400	2.33	1001-1400	1.75		
	1401-1800	3	1401-1800	2.25		
	1801-2200	3.66	1801-2200	2.75		

MANUFACTURER: RUSKIN OR EQUIVALENT

REQUIRED ABOVE.

GALVANIZED STEEL, STATIONARY NON-DRAIN LOUVER SIZE BASED ON MIN FREE AREA

CFM RANGE FREE AREA SQ FT. 0-100 0.33 101-150 0.5 151-200 0.66 201-350 1.16 351-500 1.66 501-650 2.16 651-800 2.66 801-950 3.1		T	G F M
101-150 0 5 151-200 0.66 201-350 1.16 351-500 1.66 501-650 2.16 651-800 2.66		CFM RANGE	FREE AREA SQ FT.
151-200 0.66 201-350 1.16 351-500 1.66 501-650 2.16 651-800 2.66		0-100	
201-350 1.16 351-500 1.66 501-650 2.16 651-800 2.66		101-150	05
351-500 1.66 501-650 2.16 651-800 2.66		151-200	0.66
501-650 2.16 651-800 2.66		201-350	1.16
651-800 2.66		351-500	1.66
		501-650	2.16
801-950 3.1		651-800	2.66
		801-950	3.1

RMOSTATS (USER ADJUSTABLE) (TOP OF DEVICE) 48 NTROLS (TOP OF DEVICE) THE DEFAULT MOUNTING HEIGHTS SHOWN ABOVE UNLESS NOTED OTHERWISE HE SPECIFICATIONS OR ELSEWHERE, MOUNTING HEIGHTS LISTED ARE ABOVE SHED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG) TO TOP OF DEVICE, DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND AL REQUIREMENTS. INOTATION MECHANICAL OR FIRE PROTECTION PLAN NOTE CALLOUT	CINEAR SCOT DIFFUSER
THE SPECIFICATIONS OR ELSEWHERE. MOUNTING HEIGHTS LISTED ARE ABOVE SHED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG) TO TOP OF DEVICE. DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND AL REQUIREMENTS. INOTATION	insulated flexible duct (MAX. 5'-0" LONG)
DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND AL REQUIREMENTS.	, , , , , , , , , , , , , , , , , , ,
	BRANCH DUCT WITH 45' RECTANGLE-ROUND BRANCH FITTIN AND MANUAL VOLUME DAMPER
MECHANICAL OR FIRE PROTECTION PLAN NOTE CALLOUT	ELBOW WITH TURNING VANES
CU MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR PROVIDED	BRANCH DIJCT WITH BELL-MOUTH FITTING & MANUAL VOLUM
UNO)	RETURN, EXHAUST, OR OUTSIDE AIR DUCT UP
CONNECTION POINT OF NEW WORK TO EXISTING	RETURN, EXHAUST, OR OUTSIDE AIR DUCT DOWN
LOWER NUMBER INDICATES SHEET NUMBER	SUPPLY AIR DUCT UP
SECTION CUT DESIGNATION	SUPPLY AIR DUCT DOWN
BREVIATIONS	EQUIPMENT WITH FLEXIBLE DUCT CONNECTION
AIR CONDITIONING IN WC INCHES OF WATER COLUMN AIR COOLED CHILLER AIR COOLED CONDENSING UNIT LAT LEAVING AIR TEMPERATURE ABOVE FINISHED CEILING LDB LEAVING DRY BULB	SAD XXX (CFM OF SUPPLY DIFFUSER OR REGISTER)
ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITY HAVING LWB LEAVING WET BULB LWT LEAVING WATER TEMPERATU	RE XXX(CFM OF EXHAUST GRILLE)
J AIR HANDLING UNIT MAU MAKE—UP AIR UNIT ACCESS PANEL MAX MAXIMUM BOILER MBH 1000 BTU PER HOUR	MANUAL VOLUME DAMPER
BUILDING AUTOMATION SYSTEM MD MOTORIZED DAMPER BACKBONE MFR MANUFACTURER BACKDRAFT DAMPER MIN MINIMUM	RD SQUARE TO ROUND TRANSITION
BELOW FINISHED CEILING BELOW FINISHED FLOOR BELOW FINISHED FLOOR BELOW FINISHED GRADE BOILER FEED PUMP NC NORMALLY OPEN NC NOISE CRITERIA	DUCT MOUNTED SMOKE DETECTOR (SD=SUPPLY/RD=RETURN) (#) RISER DESIGNATION
BOILER FEED PUMP NC NOISE CRITERIA BOTTOM OF STRUCTURE NF NON-FUSED BRITISH THERMAL UNIT NIC NOT IN CONTRACT	FD FIRE DAMPER
CHILLER CUBIC FEET PER MINUTE CONDENSATE PUMP CONTROL VALVE	(FSD) COMBINATION FIRE SMOKE DAMPER
NSFORMER C COMPUTER ROOM AIR RA RETURN AIR	SD) SMOKE DAMPER
COMPUTER ROOM UNIT RC ROOM CRITERIA COOLING TOWER RD RETURN DUCT CONTROL VALVE RFA RELIEF AIR	VOLUME DAMPER
CONDENSING UNIT RH RELATIVE HUMIDITY P CHILLED WATER PUMP RH ROOF HOOD	MD MOTORIZED DAMPER
DECIBELS DECIBELS AVERAGE DIRECT DIGITAL CONTROL DIGITAL INPUT DIGITAL INPUT DIGITAL INPUT RPM REVOLUTIONS PER MINUTE RTU ROOFTOP UNIT SA SUPPLY AIR SAD SUPPLY AIR DIGITALED	BD BACKDRAFT DAMPER
DOWN DUCT SILENCER SD SMOKE DUCT DETECTOR SD SUPPLY DUCT	
DOWN THRU ROOF SOW SCOPE OF WORK EXISTING SP STATIC PRESSURE EXHAUST AIR TBD TO BE DETERMINED	ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS REFER TO DUCTWORK SPECIFICATIONS FOR DUCTWORK INSULATION AND LINER INFORMATIC
EXHAUST GRILLE ENTERING AIR TEMPERATURE EXHAUST DUCT EXHAUST DUCT EXHAUST DUCT TC/C TEMPERATURE CONTROLS CONTRACTOR TEMPERATURE CONTROL PA	HVAC CONTROL DEVICES
ENTERING DRY BULB TF TRANSFER FAN EXHAUST FAN TFA TO FLOOR ABOVE ENERGY MANAGEMENT SYSTEM TFB TO FLOOR BELOW	H HUMIDISTAT
EXISTING TO REMAIN TT TEMPERATURE TRANSMITTER ENTERING WET BULB TYP TYPICAL	
ENTERING WATER U/F UNDERFLOOR	CO CARBON MONOXIDE SENSOR
FAN COIL UNIT U/S UNDERSLAB	CO2 CARBON DIOXIDE SENSOR
FROM FLOOR BELOW U/C UNDERCUT	DP DIFFERENTIAL PRESSURE
FEET PER MINUTE UP TO ROOF	SENSOR FS 51 ON SWATCH
GALLONS PER MINUTE VFD VARIABLE FREQUENCY DRIVE	HS FLOW SWITCH
HEATING VRV VARIABLE REFRIGERANT	PS HOMIDITY SENSON
M/ WITH	SP FOLL STATION
W/O WITHOUT WB WET BULB	STATIC PRESSURE
WC WATER COLUMN WPD WATER PRESSURE DROP XP EXPLOSION—PROOF	TEMPERATURE SENSOR

MECHANICAL SYMBOLS

			FAN:	SCHE	ULE	*			
MARK	SERVICE DESCRIPTION	MANUFACTURER	MOUNTING	MODEL	CFM	ESP (IN)	WATTS	ELECTRICAL V/PH	NOTES
EF-1	EXHAUST	PANASONIC	WALL	FV-0510VS1	100	0 25	16	110/1	ALL
		CONSIDERED COMP TION, NOTES AND SP							
NOTES A DIVISION 26	CONTRACTOR TO	FURNISH DISCONN	ECT SWITCH.						
A DIVISION 26 B NOMINAL M	OTOR HP SHALL BE	E NO LARGER THAN		VLABLE NOMNA	L MOTOR SI	ZE GREATE	R THAN THE	внр.	
A DIVISION 26 B NOMINAL M	OTOR HP SHALL BE			VLABLE NOMNA	L MOTOR SIZ	ZE GREATE	R THAN THE	внр.	

			FA	N CO	IL U	NIT	SCH	HED	ULE					
					F#			NGCOIL	HEATING COIL	ELB	CTRICAL		WEIGHT	
MARK	SERVICE	MANUFACTURER	Model	MOUNTING	DESIGN CFM	ESP (IN)	TH (MBH)	REFR TYPE	T HEATING (MBH)	V/PH	MCA	МОСР	(LBS)	NOTES
FC-1	HP-1	CARRIER	FPMBNC024T00	CEILING	800	0 25	240	R-410A	228	(208-230)/1	1 32	15	75	All
FC-2	HP-2	CARRIER	40MAHBQ09XA3	WALL	300	-	90	R-410A	118	(208-230)/1	-	-	23	#N/A
						ED BY MA								
	TED CONDENS	SING UNIT SHALL BE I	BY THE SAME MANUFACTI	IRER										
ASSOCIA			BY THE SAME MANUFACTU AMBIENT TEMPERATURE		G, EQUIPN			7.0						
ASSOCIA FOR CO	OLING, EQUIPM	ENT SIZED FOR 95°F		FOR HEATIN	-,	ENT SIZE	D FOR 45	"F AMBIEN						
ASSOCIA FOR COO PROVIDE	OLING, EQUIPM E PRE-MANUFA	ENT SIZED FOR 95°F CTURED OR FIELD FA	AMBIENT TEMPERATURE	FOR HEATIN	-,	ENT SIZE	D FOR 45	"F AMBIEN						
ASSOCIA FOR COO PROVIDE DISCONI	OLING, EQUIPM E PRE-MANUFA NECT SWITCH I	ENT SIZED FOR 95°F CTURED OR FIELD FA FURNISHED BY DIVIS	AMBIENT TEMPERATURE ABRIGATED FILTER RACK	FOR HEATIN WITH MERV 1		ENT SIZE	D FOR 45	"F AMBIEN						
FOR COO PROVIDE DISCONI SPECIFIE SUSPEN	OLING, EQUIPM E PRE-MANUFAI NECT SWITCH I ED FAN ESP AC ID UNIT FROM S	ENT SIZED FOR 95°F CTURED OR FIELD FA FURNISHED BY DIVISI COUNTS FOR DUCT I STRUCTURE IN HORIZ	AMBIENT TEMPERATURE ABRICATED FILTER RACK ION 26 CONTRACTOR LOSSES EXTERNAL TO UI ZONTAL POSITION WITH A	FOR HEATIN WITH MERV 1 NIT LL -THREAD F	3, PLEATE	ENT SIZE D THROW PRING VIE	D FOR 45 AWAY FIL BRATION I	"F AMBIEN TERS SOLATION	T (2"MINIMUM D	EFLECTION)				
ASSOCIA FOR COO PROVIDE DISCONI SPECIFIE SUSPEN PROVIDE	OLING, EQUIPM E PRE-MANUFAI NECT SWITCH I ED FAN ESP AC ID UNIT FROM S E AUXILIARY DR	ENT SIZED FOR 95°F CTURED OR FIELD FA FURNISHED BY DIVISI COUNTS FOR DUCT I STRUCTURE IN HORIZ AIN PAN WITH FLOOD	AMBIENT TEMPERATURE ABRICATED FILTER RACK ION 26 CONTRACTOR LOSSES EXTERNAL TO UI	FOR HEATIN WITH MERV 1 VIT LL -THREAD F SHUT OFF UN	3, PLEATE ROD AND S IT WHEN V	ENT SIZE D THROW PRING VIE VATER IS I	D FOR 45' AWAY FIL' BRATION I PRESENT	"F AMBIEN TERS SOLATION IN DRAIN	T (2"MINIMUM D PAN	EFLECTION)				

MARK	SERVICE	MANUFACTURER	MODEL	REFR	TH	DLING CAP	EFF	CAP	ATING CAP/		MCA MOCP		BCAL V/PH	WEIGHT	NOTES
				TYPE	(MBH)	(EER)	(SEER)	(MBH)	COP 47°F	(HSPF)				(LBS)	
HP-1	FC-1	CARRIER	25HHA424A003 🟋	R-410A	23 40	11 50	14	228	374	82	16.5	25	(208-230) /1	161	All
HP-2	FC-2	CARRIER	38MARBQ09AA3	R-410A	9 00	11 80	281	162	381	13	15	15	(208-230)/1	74	All

	PACKAGEI) TERMIN	AL AIR	CON	DITI	ONING	UNIT	ΓSC	HED	ULE	
MARK	MANUFACTURER	MODEL	SUPPLY FAN	COOLIN	IG COIL	HEATING (COIL		ELECTR	ICAL	NOTES
			CFM	REFR TYPE	TH (MBH)	MIN OUT (MBH)	NOM (KW)	MCA	MOCP	V/PH	
PTAC-1	GE ELECTRIC	AJHQ12DWH	400	R-410A	12	85	3 4	15	20	(208-230)/1	ALL
PTAC-2	HOTPOINT	AH11H12D3B	400	R-410A	12	12	3.6	157	20	(208-230)/1	ALL
CESSOR	IES TO BE ORDERED	THE MANUFACTUR	REKS LISTED A	KEIHE	BASIS FO	R THE DESIGN	l				

E DISCONNECT SWITCH FURNISHED BY DIVISION 26 CONTRACTOR

S	COPE OF WORK:
•	PROVIDE A NEW EXHAUST FAN TO NEW KITCHENETTE FOR HOMELESS
	HOUSING

TING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS & SITE VISITS AND MAY IOT REFLECT EXACT * AS-BUILT" CONDITIONS FIELD VERIFY ALL EXISTING CONDITION PRIOR TO SUBMITTING FINAL BIDS CAREFULLY COORDINATE NEW WORK AND DEMOLITI WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS

THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES. •2019 CALIFORNIA BUILDING CODE (CBC) 2019 CALIFORNIA MECHANICAL CODE (CMC) •2019 CALIFORNIA ELECTRICAL CODE (CEC)

2019 CALIFORNIA PLUMBING CODE (CPC) 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS (BEES) •2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)

SPECIFICATIONS KEEP PENETRATIONS THROUGH ROOF A MINIMUM OF

SYSTEMS IN THE PROJECT BASED ON THE SEISMIC ANALYSIS REQUIRED ENCLOSURE SYSTEM DUCT WRAP SYSTEM SHALL MEET UL REQUIREMENTS FOR GREASE DUCT ENCLOSURES

GENERAL NEW NOTES:

PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY

FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS

NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR

2 PROVIDE SEISMIC RESTRAINTS AS NEEDED FOR THE MECHANICAL

BY THE SPECIFICATIONS
3 EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND

SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS

FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS

COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES

4 COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH

POSSIBLE COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS.

CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE

THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE

COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID

5 WHERE SHUTDOWN OF EXISTING SYSTEMS IS REQUIRED DURING NEW

WORK, COORDINATE SHUTDOWN TIME AND DURATION WITH THE OWNER TO MINIMIZE DOWNTIME NOTIFY OWNER SEVEN (7) DAYS

6 DURING INSTALLATION OF NEW WORK, AVOID DAMAGING EXISTING

7 PROVIDE TEMPORARY BARRIERS TO CONTAIN DUST AND DEBRIS

8 ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS

AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE

MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT. 10 REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS 11 COORDINATE LOCATION OF ROOF MOUNTED HVAC EQUIPMENT AND ROOF PENETRATIONS WITH THE ARCHITECTURAL AND STRUCTURAL 12 INDOOR AIR QUALITY MEASURES PROTECT INSIDE OF (INSTALLED AND DELIVERED) DUCTWORK AND HVAC UNITS FROM EXPOSURE TO DUST, DIRT. PAINT AND MOISTURE, REPLACE INSULATION THAT HAS BECOME WET AT ANY TIME DURING CONSTRUCTION, DRYING THE INSULATION IS

NOT ACCEPTABLE SEAL ANY TEARS OR JOINTS OF INTERNAL

FIBERGLASS INSULATION REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST, AN INDEPENDENT, PROFESSIONAL DUCT CLEANING COMPANY SHALL VACUUM CLEAN ANY DUCTWORK CONNECTED TO HVAC UNITS THAT WERE OPERATED DURING THE CONSTRUCTION PERIOD AFTER NEW FILTERS ARE INSTALLED AND PRIOR TO TURNING SYSTEM OVER TO THE OWNER THE INTERNAL SURFACES AND ASSOCIATED COILS OF ANY HVAC UNITS THAT WERE

13 INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES

14 OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE SLABS ARE

15 COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF

FOLIPMENT MINIMUM ACCEPTABLE SIZE FOR STEEL AND COPPER PIPE IS 3/4 INCH USE THIS CRITERIA WHERE PIPE SIZES ARE NOT SHOWN ON

21 PAINT PORTIONS OF DUCTWORK AND INSULATION THAT ARE EXPOSED TO VIEW BY THE INSTALLATION OF DIFFUSERS, REGISTERS, AND GRILLES IN CEILINGS OR WALLS FLAT BLACK PORTIONS INCLUDE BOTH THE INTERIOR OF UNLINED DUCTWORK AND THE EXTERIOR OF

22 DUCTWORK CROSSING FIRE RATED WALLS OR OTHER FIRE RATED ASSEMBLIES SHALL BE MINIMUM 26 GAUGE SHEET METAL. 23 PROVIDE FIRE OR FIRE/SMOKE DAMPERS, AS APPLICABLE, IN

DUCTWORK AT CEILINGS AND WALLS AT LOCATIONS SHOWN ON THE PLANS FIRE AND FIRE/SMOKE DAMPERS SHALL CONFORM TO NFPA AS APPLICABLE COORDINATE SLEEVE LENGTH WITH REQUIREMENTS OF INSTALLED LOCATION
24 PROVIDE WALL OR DUCT ACCESS PANELS OR DOORS FOR ACCESS TO

FIRE AND FIRE/SMOKE DAMPERS ACCESS PANEL OR DOOR SHALL BE MINIMUM SIZE OF 10" BY 10" AND SHALL BE INSTALLED WITHIN 12" OF DAMPER PROVIDE A REMOVABLE DUCT SECTION WHERE DUCT SIZE IS

SHOWN ON PLANS. VERIEV EXACT LOCATIONS WITH ARCHITECT PRIOR

TO INSTALLATION INSTALL DEVICES WITH TOP OF DEVICE AT MAXIMUM

48" AFF TO MEET ADA REQUIREMENTS UNLESS NOTED OTHERWISE ON

PLANS PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS INSTALL WIRING IN CONDUIT PROVIDED

BY DIVISION 26 AT A MINIMUM PROVIDE CONDUIT IN THE WALL FROM

OR OTHER COMPONENTS SHOWN ON THE ARCHITECTURAL DRAWINGS

THAT ARE TO BE INSTALLED UNDER OTHER DIVISIONS CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF WALL-MOUNTED

27 PROVIDE A MANUAL BALANCING DAMPER IN EACH DUCT TAKEOFF FROM SUPPLY, RETURN OUTDOOR AND EXHAUST AIR DUCTS

RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING FOR BRANCH DUCT CONNECTIONS AND TAKE-OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES PROVIDE WITH INTEGRAL MANUAL BALANCING DAMPER AND LOCKING QUADRANT WHERE INDICATED ON 29 BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED
30 REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS, INCREASE SHEET METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER 31 FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS 32 RIGIDLY SUSPEND UNIT HEATER FROM STRUCTURE WITH SUPPORTING

ANGLES AND ALL-THREAD HANGING RODS IN ACCORDANCE WITH

33 PROVIDE EQUIPMENT VENTS AND FLUES PER EQUIPMENT

MANUFACTURERS RECOMMENDATIONS AND EQUIPMENT

MANUFACTURER'S RECOMMENDATIONS

25 LOCATE AND SET THERMOSTATS AND HUMIDISTATS AT LOCATIONS

26 COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED. DEVICES WITH PRESENTATION BOARDS, DISPLAY CABINETS, SHELVES

TOO SMALL FOR A 10" BY 10" ACCESS DOOR

THE JUNCTION BOX TO 6" ABOVE THE CEILING

DEVICES CAUSED BY A LACK OF COORDINATION

28 PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY

16. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE

18 DRAIN, FLUSH, AND REFILL ALL PIPING SYSTEMS NECESSARY TO PERFORM THE WORK REFERENCE SPECIFICATIONS FOR FLUSHING PERFORMANCE REQUIREMENTS AND SUBMIT FLUSHING PLAN TO ENGINEER FOR REVIEW PROVIDE CHEMICAL TREATMENT FOR ALL PIPING SYSTEMS AFTER FLUSHING AND REFILLING THE SYSTEM 19 COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS 20 ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING

17 FOR HYDRONIC, STEAM AND STEAM CONDENSATE PIPING TO

SHALL BE PROVIDED BY DIVISION 23 UNLESS OTHERWISE NOTED 9 NEW MECHANICAL FOLIPMENT DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS FIELD MEASURE FINAL DUCTWORK AND

PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS

AVAILABLE SPACE VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET

SURFACES AND EQUIPMENT TO REMAIN REPAIR DAMAGE CAUSED DURING CONSTRUCTION AT NO EXTRA COST TO THE OWNER

RESULTING FROM THE PERFORMANCE OF THE WORK TO THE AREA

PRIOR TO INTERRUPTION OF SERVICE

WHERE WORK IS BEING PERFORMED

OPERATED SHALL ALSO BE CLEANED

ALLOWED BY THE SPECIFICATIONS

WITH U.L. REQUIREMENTS

LOCATIONS

UNLESS OTHERWISE SHOWN OR NOTED

EQUIPMENT AND/OR FILTER REPLACEMENT

OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS

DISCREPANCIES PRIOR TO SUBMISSION OF BID

AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION

ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS

35 PROVIDE WALL MOUNTED LOUVERS AND DAMPERS WITH SUITABLE

37 FIELD VERIFY THAT THE EXISTING EQUIPMENT INCLUDING ACCESSORIES BEING REUSED FOR THIS PROJECT IS NOT DAMAGED AND IS IN GOOD WORKING ORDER REPORT ANY DEFICIENCIES TO THE OWNER OR ARCHITECT SUBMIT TO THE OWNER AND ARCHITECT A WRITTEN REPORT DESCRIBING TESTS PERFORMED TO VERIFY OPERATION AND RESULTS OF THE TESTS 38 CLEAN EXISTING EQUIPMENT AND EQUIPMENT COMPONENTS BEING

FILTERS SHALL BE COMPATIBLE WITH THE EXISTING EQUIPMENT AND EQUAL IN PERFORMANCE TO THE EXISTING FILTERS AT NEW CONDITION UNLESS OTHERWISE NOTED CLEAN STRAINERS IN PIPING SYSTEMS PRIOR TO STARTING PUMPS. 39 LUBRICATE EXISTING EQUIPMENT BEING REUSED FOR THIS PROJECT IN

INSTRUCTIONS CHARGE SYSTEMS WITH NEW REFRIGERANT MATCHING EXISTING

10'-0" FROM HVAC EQUIPMENT FRESH AIR INLETS AND 2'-0" FROM ROOF PARAPETS
34 PROVIDE TYPE I GREASE HOOD EXHAUST DUCTWORK OF MINIMUM 16 GAUGE BLACK IRON WITH LIQUID TIGHT WELDS, WITH ACCESS PANELS FOR GREASE CLEANING AS REQUIRED BY NFPA 96 AND LOCAL CODES SLOPE DUCT BACK TOWARDS HOOD AT MINIMUM OF 1/4" PER LINEAL FOOT MAINTAINING 18" CLEARANCE TO COMBUSTIBLE MATERIALS INSTALL GREASE DUCTS IN AN APPROVED FIRE-RATED ENCLOSURE SEPARATED FROM THE EXHAUST DUCT BY A MINIMUM OF 6" AND MAXIMUM OF 12" VENTILATE ENCLOSURE TO THE OUTSIDE AIR IF REQUIRED BY CODE AS AN OPTION, IF APPROVED BY LOCAL CODES, PROVIDE AN APPROVED WRAP SYSTEM IN LIEU OF THE RATED DUCT

MOUNTING FRAME TO MATCH WALL CONSTRUCTION COORDINATE WITH ARCHITECTURAL DRAWINGS

36 PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE TURNING SYSTEM(S) OVER

REUSED FOR THIS PROJECT PROVIDE NEW FILTERS FOR EXISTING AIR HANDLING EQUIPMENT PRIOR TO STARTUP OF EQUIPMENT NEW

ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
OBTAIN INSTRUCTIONS FROM MANUFACTURER IF THEY ARE NOT

AVAILABLE AT THE SITE 40 FULLY CHARGE EXISTING REFRIGERANT SYSTEMS BEING REUSED FOR THIS PROJECT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN

> CREATIVE ENGINEERING GROUP 7123 REMMET AVE. CANOGA PARK, CA 91303 PHONE: (818) 999-0415 FAX: (818) 999-0215 WEBSITE: www.C-E-G.com

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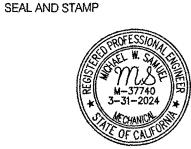
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GENERAL

SHEET NO:

O MECHANICAL SPECIFIC NOTES:

- 1. INSTALL FAN PER MANUFACTURER RECOMMENDATIONS.
- ENVIRONMENTAL EXHAUST OUTLETS SHALL TERMINATE NO LESS THAN 3 FEET FROM PROPERTY LINE, 3 FEET FROM OPENINGS INTO BUILDING, AND 10 FEET FROM MECHANICAL AIR INTAKE.

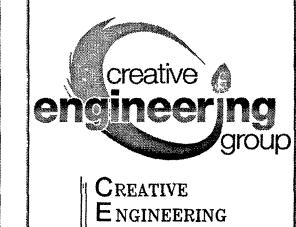
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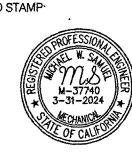


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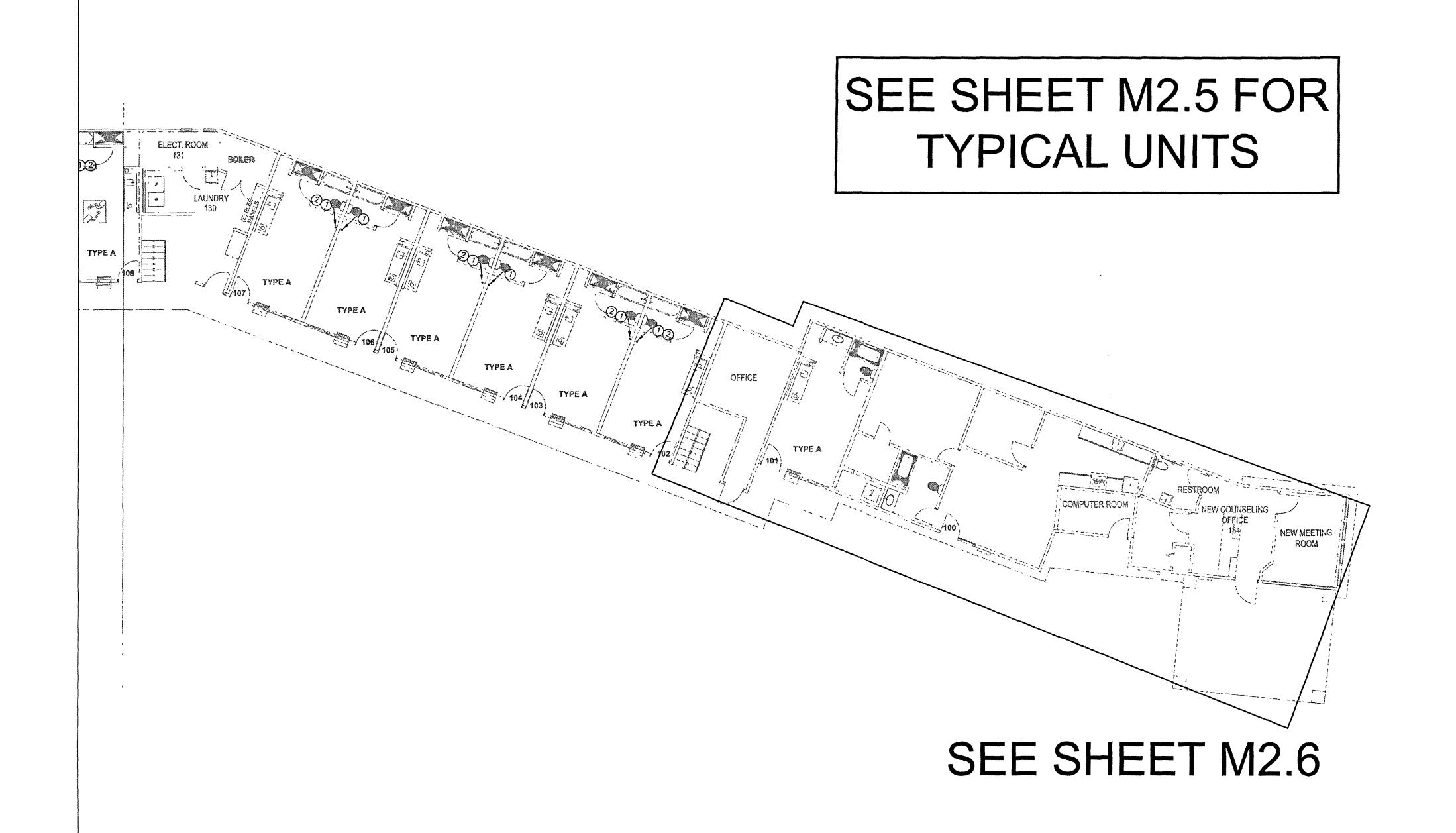
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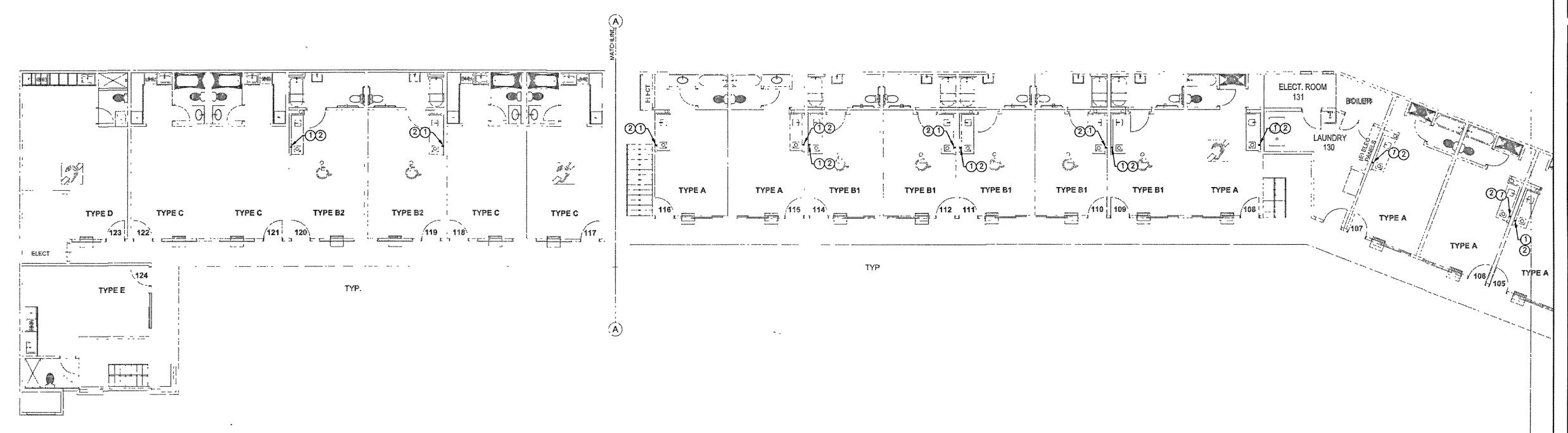
ENLARGED-1 FIRST FLOOR HVAC PLAN

CHEET NO





- 1. INSTALL FAN PER MANUFACTURER RECOMMENDATIONS.
- ENVIRONMENTAL EXHAUST OUTLETS SHALL TERMINATE NO LESS THAN 3 FEET FROM PROPERTY LINE, 3 FEET FROM OPENINGS INTO BUILDING, AND 10 FEET FROM MECHANICAL AIR INTAKE.



SEE SHEET M2.5 FOR TYPICAL UNITS

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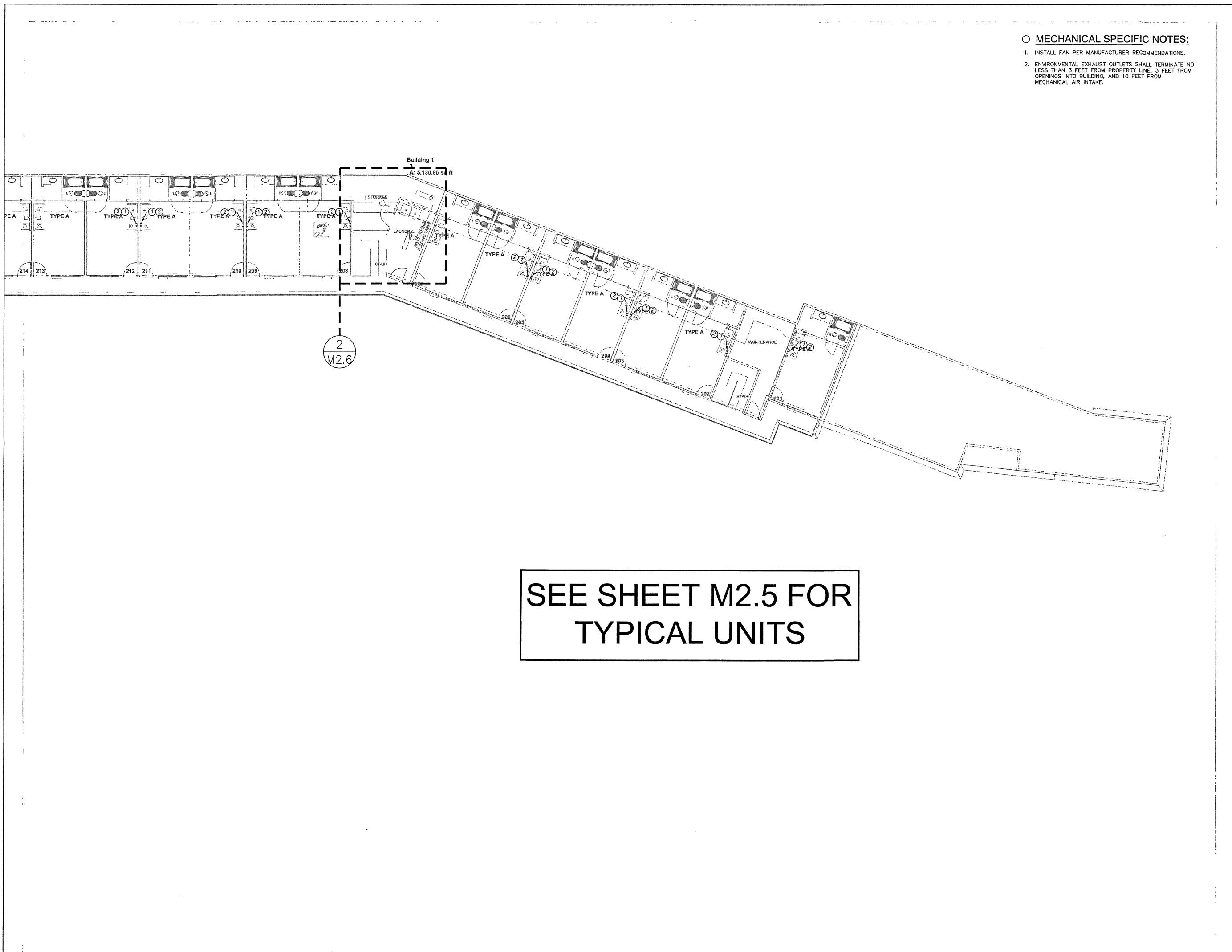
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ENLARGED-2 FIRST FLOOR HVAC PLAN

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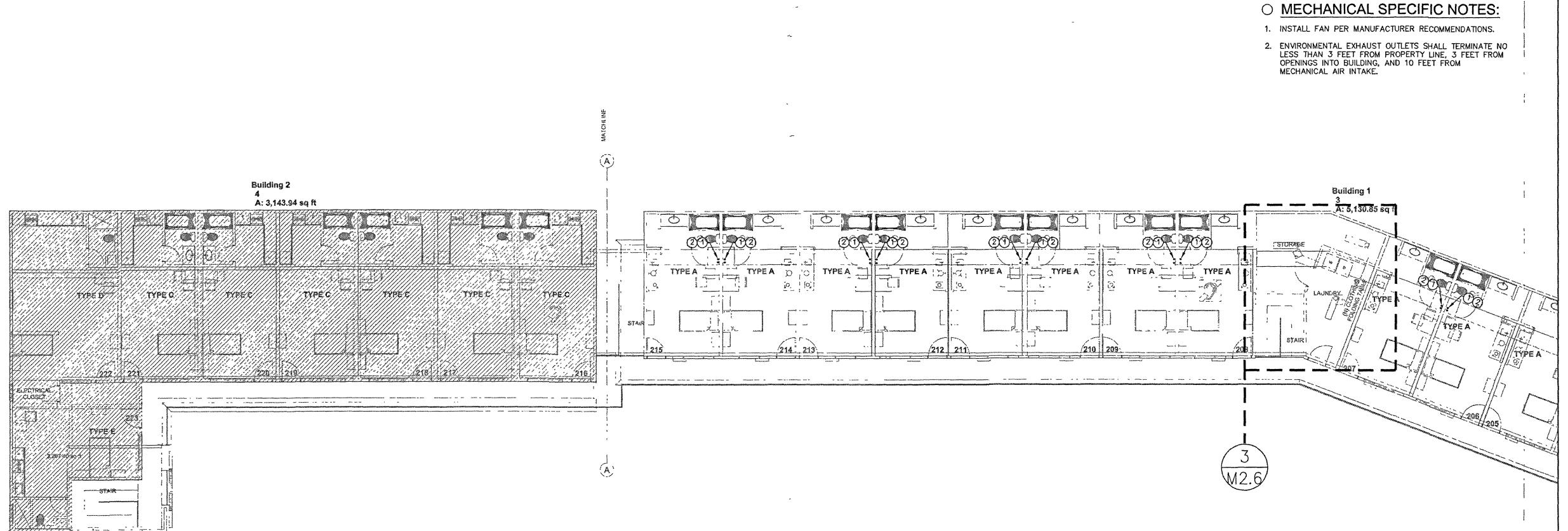
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ENLARGED-3 SECOND FLOOR HVAC PLAN

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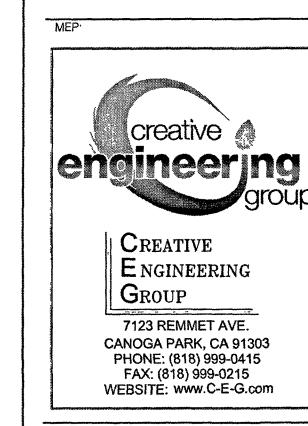


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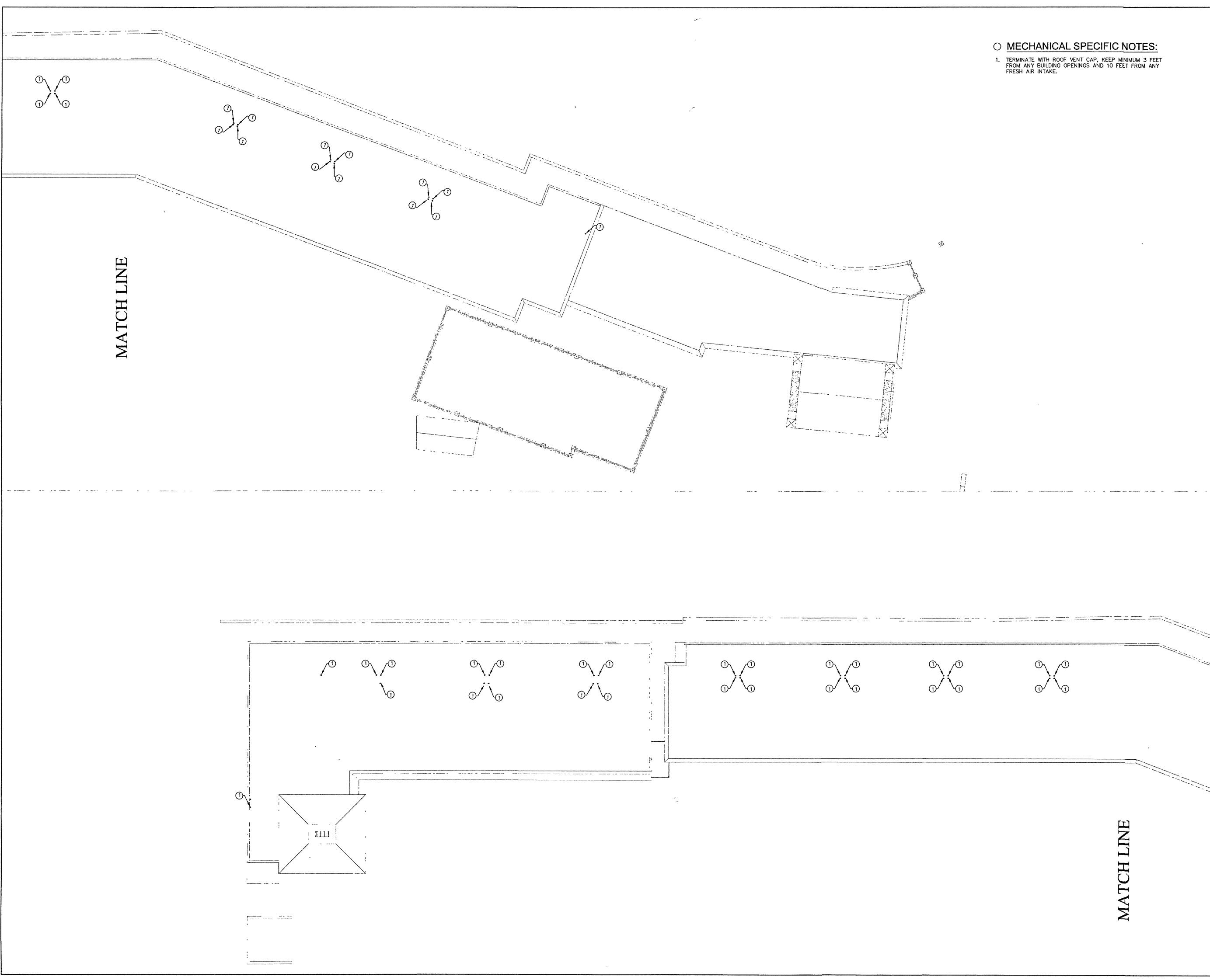
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ENLARGED-4 SECOND FLOOR HVAC PLAN

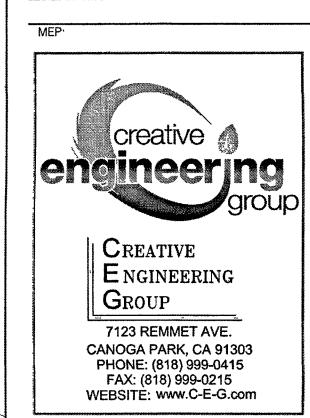
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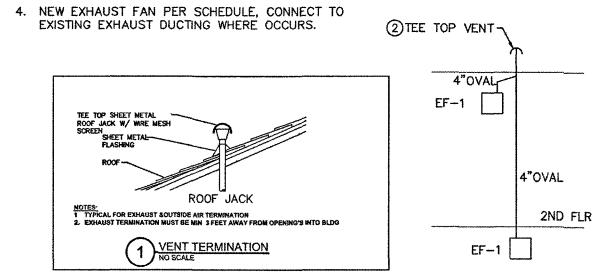
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ROOF FLOOR HVAC PLAN

SHEET NO

O MECHANICAL SPECIFIC NOTES:

- 1. INSTALL FAN PER MANUFACTURER RECOMMENDATIONS.
- 2. TERMINATE WITH ROOF VENT CAP, KEEP MINIMUM 3 FEET FROM ANY BUILDING OPENINGS AND 10 FEET FROM ANY FRESH AIR INTAKE.
- 3. NEW PTAC UNIT SHALL BE REPLACED PER EQUIPMENT SCHEDULE.MATCH THE EXISTING OPENING.



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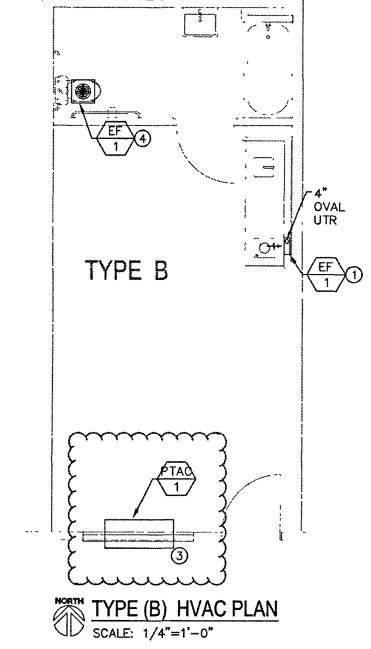
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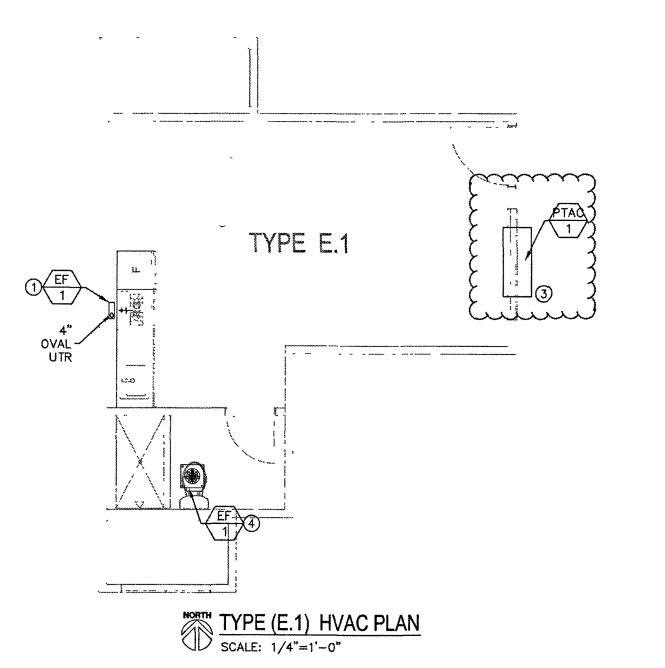
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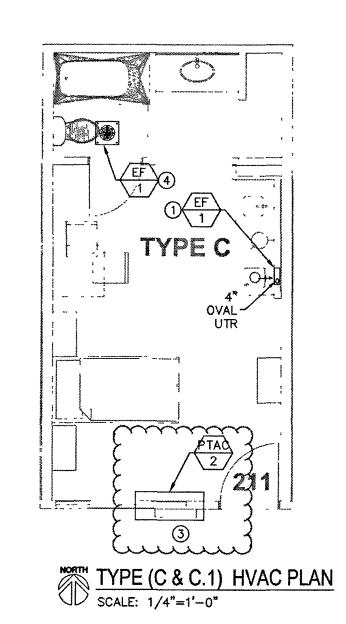
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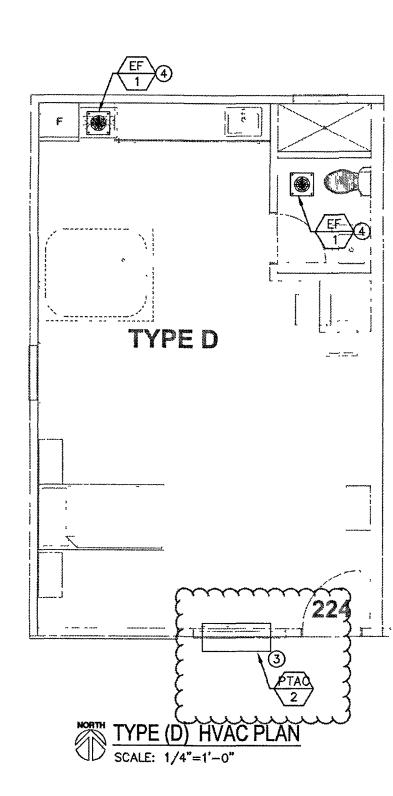
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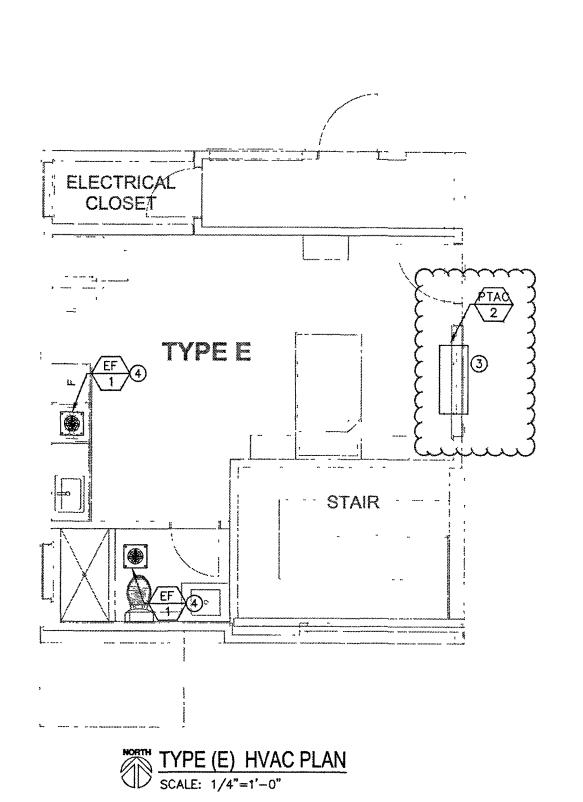


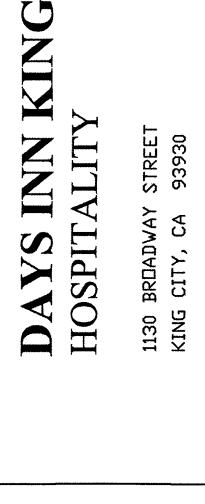




TYPEA

TYPE (A) HVAC PLAN
SCALE: 1/4"=1'-0"







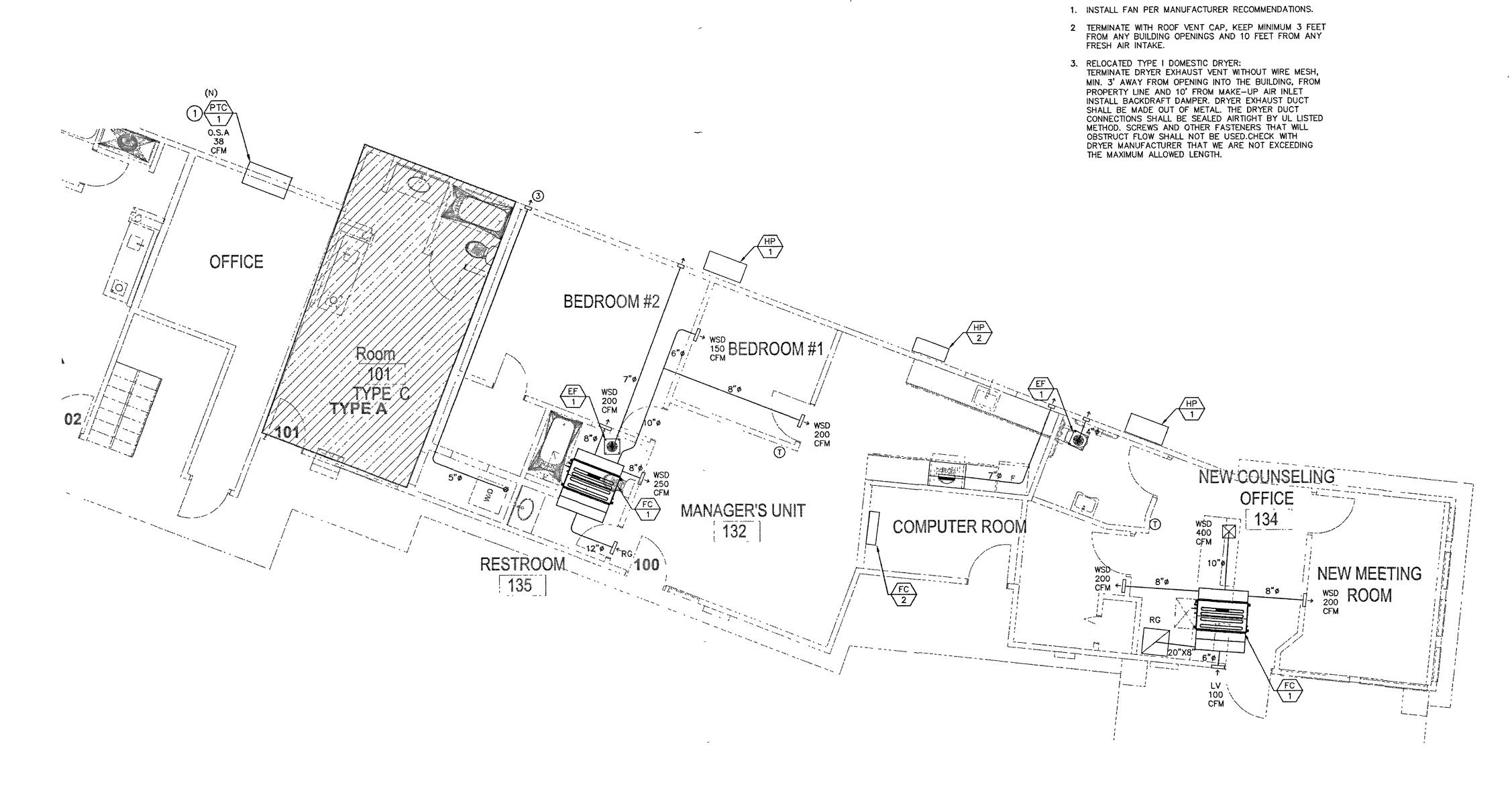
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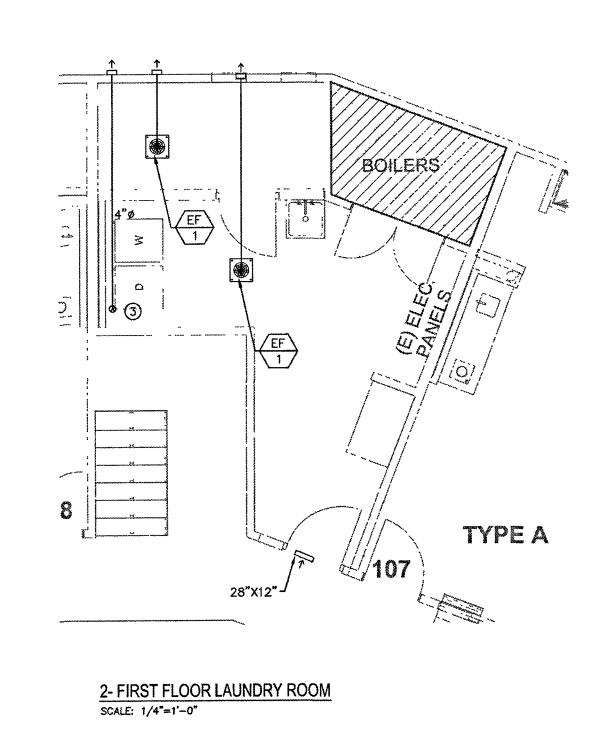
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TYPICAL UNITS **HVAC PLAN**

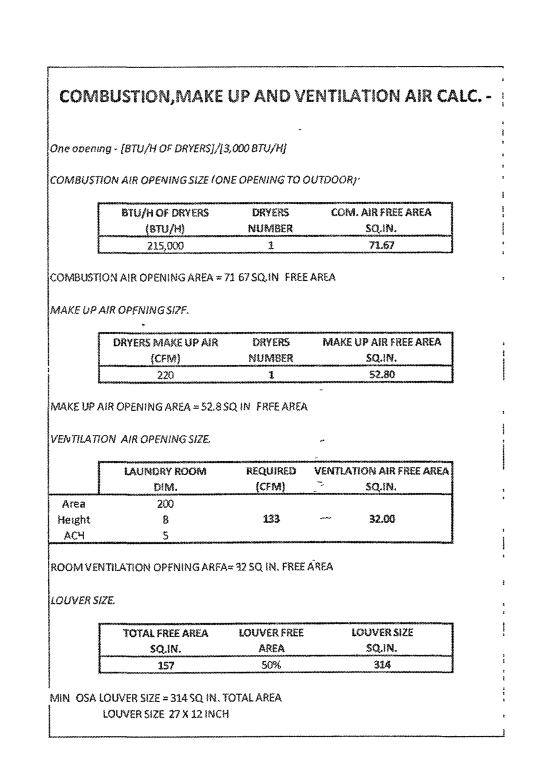
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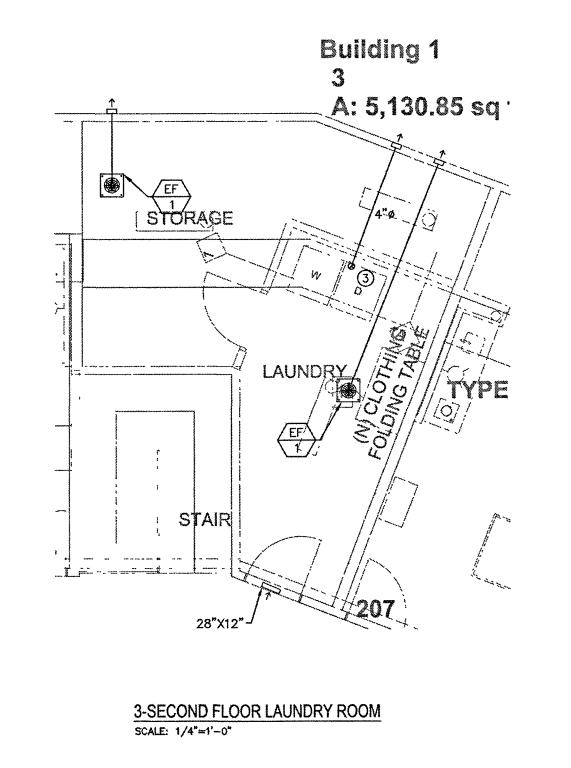


1- MANAGER'S UNIT&OFFICE HVAC PLAN SCALE: 1/4"=1'-0"



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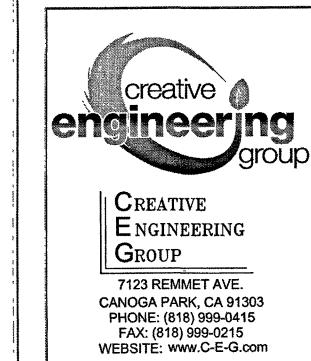
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